



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Yoshinaga

Serial No.: 09/890,729

Group Art Unit No.: 1644

Filed: August 3, 2001

Examiner: Ouspenski, Ilia I.

For: Polypeptides Involved in Immune Response

Docket No.: A-579B

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

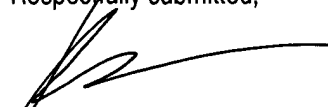
Under the guidelines of 37 C.F.R. 1.97, applicant(s) submit(s) a copy of (each of) the reference(s) listed on the attached supplemental PTO-1449 (Modified) form for consideration by the Examiner.

Applicants make no determination of relevancy with respect to the reference(s) submitted herewith and request the Examiner to make an independent determination of relevance and/or materiality of the reference(s).

Applicant(s) request(s) consideration of this information and passage of the application to issue.

The Commissioner is hereby authorized to charge any additional fees which may be required or credit any overpayment to Deposit Account No. 01-0519 in the name of Amgen Inc. An original and one copy of this paper are enclosed.

Respectfully submitted,


Robert B. Winter
Attorney/Agent for Applicant(s)
Registration No.: 34,458
Phone: (805) 447-2425
Date: June 16, 2006

Please send all future correspondence to:
U.S. Patent Operations/RBW
Dept. 4300, M/S 28-2-C
AMGEN INC.
One Amgen Center Drive
Thousand Oaks, California 91320-1799

EXPRESS MAIL CERTIFICATE

"Express Mail" mail labeling number:

EL 732826145 US

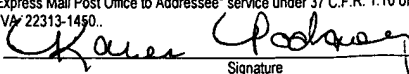
Date of Deposit:

June 16, 2006

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated above and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

~~Sherry St. Andrew~~
Printed Name

~~Karen Podgorny~~


Signature

Modified Form PTO-1449 LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)	Atty. Docket No.	Serial No.
	A-579B	09/890,729
	Applicant Yoshinaga	
Filing Date	Group	
August 3, 2001	1644	

U.S. PATENT DOCUMENTS

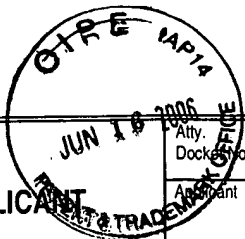
EXAMINER'S INITIALS	DOCUMENT NUMBER	PUBLICATION DATE	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
	A1	US20020115831 A1	Tamatani et al.			3/26/02
	A2	US20020151685 A1	Tamatani et al.			3/26/02
	A3	US20020156242 A1	Tamatani et al.			3/26/02
	A4	US20030083472 A1	Tamatani et al.			5/1/03
	A5	US20040073012 A1	Tamatani et al.			11/7/03
	A6	US20040120945 A1	Tamatani et al.			11/25/03
	A7	US20040132658 A1	Tamatani et al.			11/7/03
	A8	US20040146506 A1	Tamatani et al.			11/7/03
	A9	US20040151669 A1	Tamatani et al.			3/11/04
	A10	US20040151718 A1	Tamatani et al.			11/7/03
	A11	US20040151720 A1	Tamatani et al.			3/5/04
	A12	US20040229788 A1	Tamatani et al.			11/25/03
	A13	US20050261489 A1	KroczeK			8/22/03
	A14	US 4,619,794	Hauser			1/29/85
	A15	US 7,030,225	Tamatani et al.			8/26/99

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUB. DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
							YES	NO
	B1	31399/84	9/11/86	Australia				
	B2	0 984 023 A1	8/3/00	Europe				
	B3	0 984 023	8/29/01	Suppl Partial EP Search Report				
	B4	1 502 920 A2	2/2/05	Europe				
	B5	1 502 920 A3	2/9/05	Europe				

OTHER DOCUMENTS (Including Publisher, Author, Title, Date, Pertinent Pages, Etc.)

C1		
EXAMINER:	Date Considered:	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		



Modified Form PTO-1449

LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

Atty.
Docket No.
Applicant

A-579 B

Serial No.

09/890,729

Yoshinaga

Filing
Date

January 27, 2000

Group

Unknown

U.S. PATENT DOCUMENTS

EXAMINER'S INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	AA	3,773,919	11/20/73	Boswell et al			
	AB	4,816,567	3/28/89	Cabilly et al.			
	AC	4,892,538	1/9/90	Aebischer et al.			
	AD	4,970,154	11/13/90	Chang			
	AE	5,011,472	4/30/91	Aebischer et al.			
	AF	5,106,627	4/21/92	Aebischer et al.			
	AG	5,593,875	1/14/97	Wurm et al.			
	AH	5,653,975	8/5/97	Baetge et al.			
	AI	5,676,954	10/14/97	Brigham			

COPY
Reviewed
on 5/16/05
by J. J. Mitchell

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
	BA	EP 0 036 676	9/19/90	EPO			X	
	BB	EP 0 058,481	10/1/86	EPO			X	
	BC	EP 0 088 046	12/9/87	EPO				X
	BD	EP 0 133 988	3/13/85	EPO				X
	BE	EP 0 143 949	10/12/88	EPO			X	
	BF	EP 0 154 316	9/13/89	EPO			X	
	BG	EP 0 401 384	3/13/96	EPO			X	
	BH	WO 91/10425	7/25/91	WIPO			X	
	BI	WO95/11308	4/27/95	WIPO			X	
	BJ	WO 96/40958	12/19/96	WIPO			X	
	BK	WO 98/38216	9/03/98	WIPO			X	
	BL	WO 99/15553	4/01/99	WIPO			X	
	BM	EP 1 125 585	8/22/01	EPO			X	

EXAMINER:

Date Considered:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Modified Form PTO-1449 LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)	Atty. Docket No.	A-579 B	Serial No.	09/890,729
	Applicant	Yoshinaga		
	Filing Date	January 27, 2000	Group	Unknown

EXAMINER'S
INITIALS**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

CA	Altschul et al., "Basic Local Alignment Search Tool", J. Mol. Biol. <u>215</u> , 403-410 (1990)
CB	Arufo and Seed, "Molecular cloning of a CD28 cDNA by a high-efficiency COS cell expression system", Proc. Natl. Acad. Sci. <u>84</u> , 8573-8577 (1987)
CC	Ausubel et al., Current Protocols in Molecular Biology, Green Pub. and Wiley and Sons, NY (1994) TABLE OF CONTENTS
CD	Brunet et al., "A new member of the immunoglobulin superfamily--CTLA-4", Nature <u>328</u> , 267-270 (1987)
CE	Carillo et al., "The Multiple Sequence Alignment Problem in Biology", SIAM J. Applied Math. <u>48</u> , 1073 (1988)
CF	Dariavach et al., "Human Ig superfamily CTLA-4 gene: chromosomal localization and identity of protein sequence between murine and human CTLA-4 cytoplasmic domains", Eur. Jour. Immun. <u>18</u> , 1901-1905 (1988)
CG	Dayhoff et al., "A Model of Evolutionary Change in Proteins", Atlas of Protein Sequence and Structure, vol. 5, supp. 3 (1978)
CH	Devereux et al., "A comprehensive set of sequence analysis programs for the VAX", Nucleic Acids Research <u>12</u> (1), 387 (1984)
CI	Engels et al., "Gene Synthesis", Angew. Chem. Intl. Ed. <u>28</u> , 716-734 (1989)
CJ	Eppstein et al., "Biological activity of liposome-encapsulated murine interferon γ is mediated by a cell membrane receptor", Proc. Natl. Acad. Sci. USA, <u>82</u> , 3688-3692 (1985)
CK	Francis, "Protein modification and fusion proteins", Focus on Growth Factors <u>3</u> , 4-10 (1992)
CL	Freeman et al., "B7, a New Member of the Ig Superfamily with Unique Expression on Activated and Neoplastic B Cells", J. Immunology <u>143</u> , 2714-2722 (1989)
CM	Freeman et al., "Structure, Expression, and T Cell Costimulatory Activity of the Murine Homologue of the Human B Lymphocyte Jour. Expt. Med. <u>174</u> , 625-31 (1991)
CN	Freeman et al., "Murine B7-2, an Alternative CTLA4 Counter-receptor that Costimulates T Cell Proliferation and Interleukin 2 Production", Jour. Expt. Med. <u>178</u> , 2185-2192 (1993)
CO	Freeman et al., "Cloning of B7-2: A CTLA-4 Counter-Receptor That Costimulates Human T Cell Proliferation", Science <u>262</u> , 909-911 (1993)
CP	Gennaro, Remington's Pharmaceutical Sciences, 18th Edition, ed., Mack Publishing Company (1990) TABLE OF CONTENTS
CQ	Gribskov et al., Sequence Analysis Primer, eds., M. Stockton Press, New York, 1991 TABLE OF CONTENTS
CR	Griffin et al., Computer Analysis of Sequence Data, Part 1, eds., Humana Press, New Jersey, 1994 TABLE OF CONTENTS
CS	Gross et al., "The Murine Homologue of the T Lymphocyte Antigen CD28", J. Immun. <u>144</u> , 3201-3210 (1990)
CT	Henikoff, "Amino acid substitution matrices from protein blocks", PNAS, USA <u>89</u> , 10915-10919 (1992)
CU	Hoogenboom et al., "By-passing Immunisation", J. Mol. Biol. <u>227</u> , 381 (1991)
CV	Houghten et al., "General method for the rapid solid-phase synthesis of large numbers of peptides: Specificity of antigen-antibody interaction at the level of individual amino acids", Proc Natl Acad. Sci. USA <u>82</u> , 5132 (1985)
CW	Hutloff et al., "ICOS is an inducible T-cell co-stimulator structurally and functionally related to CD28", Nature <u>397</u> , 263-266 (1999)
CX	Jakobovits et al., "Germ-line transmission and expression of a human-derived yeast artificial chromosome", Nature <u>362</u> , 255-258 (1993)
CY	Jakobovits et al., "Analysis of homozygous mutant chimeric mice: Deletion of the immunoglobulin heavy-chain joining region blocks B-cell development and antibody production", Proc. Natl. Acad. Sci. <u>90</u> , 2551-2555 (1993)

EXAMINER:

Date Considered:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Modified Form PTO-1449 LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)	Atty. Docket No.	A-579 B	Serial No.	09/890,729
	Applicant	Yoshinaga		
	Filing Date	January 27, 2000	Group	Unknown

EXAMINER'S
INITIALS**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

CZ	Jones et al., "Replacing the complementarity-determining regions in a human antibody with those from a mouse", Nature <u>321</u> , 522-525 (1986)
DA	Kitts et al., "A Method for Producing Recombinant Baculovirus Expression Vectors at High Frequency", Biotechniques <u>14</u> , 810-817 (1993)
DB	Langer et al., "Biocompatibility of polymeric delivery systems for macromolecules", J. Biomed. Mater. Res. <u>15</u> , 167-277 (1981)
DC	Langer, "Controlled release of macromolecules", Chem. Tech. <u>12</u> , 98-105 (1982)
DD	Lesk, Computational Molecular Biology, ed., Oxnard University Press, New York (1998) TABLE OF CONTENTS
DE	Lucklow, "Baculovirus systems for the expression of human gene products", Curr. Opin. Biotechnol. <u>4</u> , 564-572 (1993)
DF	Lucklow et al., "Efficient Generation of Infectious Recombinant Baculoviruses by Site-Specific Transposon-Mediated Insertion of Foreign Genes into a Baculovirus Genome Propagated in <i>Escherichia coli</i> ", J. Virol. <u>67</u> , 4566-4579 (1993)
DG	Marks et al., "By-passing Immunization Human Antibodies from V-gene Libraries Displayed on Phage", J. Mol. Biol. <u>222</u> , 581 (1991)
DH	Marston et al., "Solubilization of Protein Aggregates", Meth. Enz. <u>182</u> , 264-275 (1990)
DI	McDonald et al., "Isolation of RNA Using Guanidinium Salts", Meth. Enzymol. <u>152</u> , 219 (19987)
DJ	Merrifield, "Solid Phase Peptide Synthesis. I. The Synthesis of a Tetrapeptide", J. Am. Chem. Soc. <u>85</u> , 2149 (1963)
DK	Morrison et al., "Chimeric human antibody molecules: Mouse antigen-binding domains with human constant region domains", Proc. Natl. Acad. Sci. <u>81</u> , 6851-6855 (1985)
DL	Neddlemen et al., "A General Method Applicable to the Search for Similarities in the Amino Acid Sequence of Two Proteins", J. Mol. Biol. <u>48</u> , 443-453 (1970)
DM	Ogden et al., "Electrophoresis in Agarose and Acrylamide Gels", Meth. Enzymol. <u>152</u> , 61 (1987)
DN	Riechmann et al., "Reshaping human antibodies for therapy", Nature <u>332</u> , 323-327 (1988)
DO	Sambrook et al., Molecular Cloning: A Laboratory Manual, Cold Springs Harbor Laboratory Press, Cold Springs Harbor, NY (1989) TABLE OF CONTENTS
DP	Sidman et al., "controlled Release of Macromolecules and Pharmaceuticals from Synthetic Polypeptides Based on Glutamic Acid", Biopolymers <u>22</u> , 547-556 (1983)
DQ	Smith, et al., Biocomputing: Informatics and Genome Projects, Academic Press, New York, 1993 TABLE OF CONTENTS
DR	Steward and Young, Solid Phase Peptide Synthesis, Pierce Chemical Co., Rockford, IL (1984) TABLE OF CONTENTS
DS	Verhoeven et al., "Reshaping Human Antibodies: Grafting an Antilysozyme Activity", Science <u>239</u> , 1534-1536 (1988)
DT	von Heinje, Sequence Analysis in Molecular Biology, Academic Press, (1987) TABLE OF CONTENTS

EXAMINER:

Date Considered:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION

Atty. Docket No.	06843.0050-04000	Appln. No.	09/890,729
Applicant	Steven K. YOSHINAGA		
Filing Date	August 3, 2001	Group:	1646

U.S. PATENT DOCUMENTS

Examiner Initial*	Document Number	Issue Date	Name	Class	Sub Class	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Document Number	Publication Date	Country	Class	Sub Class	Translation Yes or No
WO 00/46240	08/10/2000	PCT			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Ling et al., "Cutting Edge: Identification of GL50, a Novel B7-Line Protein That Functionally Binds to ICOS Receptor," <i>Journal of Immunology</i> , 164(4):1653-1657 (2000).
	Tafari et al., "ICOS is Essential for Effective T-Helper-cell responses," <i>Nature</i> , 409:105-109 (2001)
	Wang et al., "Costimulation of T cells by B7-H2, a B7-like Molecule that Binds ICOS," <i>Blood</i> , 96(8):2808-2813 (2000).
	Yoshinaga et al., "T-cell Co-stimulation Through B7RP-1 and ICOS," <i>Nature</i> , 402:827-832 (1999).
14D	International Search Report for PCT Application No. PCT/US01/44859, mailed December 3, 2002.

Examiner	Date Considered
*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	
Form PTO 1449	Patent and Trademark Office - U.S. Department of Commerce